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CIRCULAR No. 13.

U. S. DEPARTMENT OF AGRICULTURE. BUREAU OF ANIMAL INDUSTRY.

CHECK LIST OF THE ANIMAL PARASITES OF DUCKS.

(Anas boschas domestica.)

This check list is taken from the card catalogue of the Zoological Laboratory, Bureau of Animal Industry, and contains all of the animal parasites of the domesticated duck recorded up to the present time, so far as it has been possible to trace them in veterinary and zoological literature. The generic names are printed in brevier antique lower case, ex., Monas; the generally accepted specific names are given in brevier small caps under the generic name, ex., ANATIS; synonyms, which are taken upon the authority of various authors, are printed in brevier italics and cross referenced to the name adopted for the parasite by the most recent authorities, ex., "Coccidium Rivolta see Coccidium Tenellum."

In the present list I do not commit myself to the validity of any species or genus or to the validity of any specific or generic name. The names given are those adopted by the most recent authorities, but it will be years before all of these forms can be properly studied. In a few cases I have adopted the "generally accepted name," even if it is apparently not the first available name, as I consider it better to make changes in nomenclature only when the literature can be given. An historical review of the species is, however, out of the question in a check list of this kind.

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Approved:

J. STERLING MORTON, Secretary.

WASHINGTON, D. C., May 14, 1896.

PROTOZOA (UNICELLULAR ANIMALS).

TREMATODA (FLUKES).

Cephalogonimus J. Poirier, 1885 (also as subg. of Distomum)
ovatus (Rudolphi, 1802) Stossich, 1892......Bursa of Fabricius
1802, Fasciola ovata Rudolphi.

1809, Distoma ovatum (Rudolphi, 1802) Rudolphi.

1846, D. bursicola Creplin.

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Distomum Retzius, 1786 (also Distoma) [nec Distomus Gaertner, 1774]
   anatis see Echinostomum Echinatum.
   anatis fusca see
   armatum 1 see
   bursicola see CEPHALOGONIMUS OVATUS.
   conoideum see Echinostomum echinatum.
   dilatatum 1 see
                      "
                                  "
   echinatum 1 see
                                  "
   echiniferum see
   excavatum see
   fuligulæ ferinæ see
   gruis see
   militare see
   ovatum see CEPHALOGONIMUS OVATUS.
   oxycephalum see Echinostomum echinatum.
   radiatum see
   recurvatum see Echinostomum recurvatum.
Echinostomum Rudolphi, 1809 (also Echinostoma) (also as subg. of Distomum)
   dilatatum 1 see ECHINOSTOMUM ECHINATUM.
   1782, Cucullanus conoideus Bloch.
       1782, Planaria teres poro simplici Goeze.
       1788, Festucaria anatis Schrank.
       1790, Fasciola anatis (Schrank, 1788) Gmelin.
       1790, F. gruis Gmelin.
       1790, Festucaria boschadis Schrank.
         ?, Distoma anatis fuscæ Viborg.
       1800, D. anatis (Schrank, 1788) Zeder.
       1803, D. gruis (Gmelin, 1790) Zeder.
       1803, D. echinatum 1 Zeder.
       1809, D. excavatum Rudolphi.
       1809, D. militare Rudolphi.
       1819, D. oxycephalum 1 Rudolphi.
       1844, D. fuligulæ ferinæ Bellingham.
       1845, D. radiatum Dujardin.
       1846, "D. dilatatum 1 Miram n. sp." [nomen nudum of Creplin].
       1855, D. echiniferum La Valette.
       1858, D. armatum 1 Molin [nec (Rudolphi, 1793) Zeder, 1803].
       1860, "Echinostoma dilatatum 1 (Miram," 1846) Cobbold.
       1885, Distoma conoideum (Bloch, 1782) Railliet.
   1873, Distomum recurvatum Linstow.
Fasciola Linnæus, 1758
   anatis see Echinostomum echinatum.
   gruis see
   ovata see CEPHALOGONIMUS OVATUS.
   trachea see Syngamus trachealis.
   verrucosa see Notocotyle verrucosum.
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¹Railliet thinks that both *D. armatum* Molin and *D. dilatatum* of chickens are identical with *D. echinatum* of ducks. Various authors have published long lists of synonymy of *E. echinatum*, but I am very skeptical as to the standing of most of them. The genus *Echinostomum* Rudolphi, 1809 [type species *E. echinatum* (Zeder, 1803)], must be subjected to monographic revision, based upon specimens as well as literature, before we can look upon the synonymy as established.

Pestucaria Schrank, 1788 anatis see Echinostomum echinatum. " boschadis see caryophyllina see MONOSTOMUM CARYOPHYLLINUM. Hypostoma Blainville, 1828 [nec Lacépède, 1803] caryophyllinum see Monostomum Caryophyllinum. Monostomum Zeder, 1800 (also Monostoma) attenuatum see Notocotyle verrucosum. 1802, Festucaria caryophyllina Rudolphi. 1828, Hypostoma caryophyllinum (Rudolphi, 1802) Blainville. lineare see Notocotyle verrucosum. verrucosum see Notocotyle Diesing, 1850 triscriale see Notocotyle Verrucosum. 1789, Fasciola verrucosa Frölich. 1800, Monostomum verrucosum (Frölich, 1789) Zeder. 1809, M. attenuatum Rudolphi [nec Molin, 1859]. 1819, M. lineare Rudolphi. 1839, Notocotylus triserialis Diesing. 1850, Notocotyle triseriale (Diesing, 1839) Diesing. Notocotylus Diesing, 1839 triscrialis see Notocotyle verrucosum. Planaria Goeze, 1782 [nec Müller, 1776] teres poro simplici see Echinostomum echinatum. CESTODA (TAPEWORMS).1 Alyselminthus Zeder, 1800 columbæ see Davainea crassula. sinuosus see Drepanidotænia sinuosa. Choanotænia 2 Railliet, 1896 infundibuliformis see Drepanidotænia infundibuliformis. Davainea R. Blanchard & Railliet, 1891 columbæ see Davainea Crassula. ? 1790, Tania serpentiformis i. T. turturis Gmelin.

1891, Davainea columbæ (Zeder, 1800) R. Blanchard.

1800, Alyselminthus columbæ Zeder.
1803, Halysis columbæ (Zeder, 1800) Zeder.
1810, Tænia sphenocephala Rudolphi.
1819, T. sphenocephala Rudolphi.
1819, T. crassula Rudolphi.

For a discussion of these parasites see Stiles's Report upon the Present Knowledge of the Tapeworms of Poultry. (Bull. 12, Bureau of Animal Industry, U. S. Department of Agriculture, Washington D.C.)

ton, D. C.)

Railliet has recently proposed a new genus (Choanotænia) for the species Drepanidotænia infundi-

²Railliet has recently proposed a new genus (*Choanotænia*) for the species *Drepanidotænia infundibiliformis*. As this species has not yet been sufficiently studied anatomically, I prefer to retain the present name.

Dicranotænia Railliet, 1892			
CORONULA (Dujardin, 1845) Railliet, 1892Intestine			
1845, Tania coronula Dujardin.			
Drepanidotænia Railliet, 1892			
ANATINA (Krabbe, 1869) Railliet, 1893Intestine			
1869, Tania anatina Krabbe.			
GRACILIS (Krabbe, 1869) Railliet, 1893Intestine			
? 1782, Tænia collo longissimo Bloch.			
? 1803, Halysis gracilis Zeder.			
? 1810, Tania gracilis (Zeder, 1803) Rudolphi.			
1869, T. gracilis Krabbe.			
INFUNDIBULIFORMIS (Goeze, 1782) Railliet, 1893Intestine			
1779, Tania infundibulum Bloch pro parte.			
1782, T. infundibuliformis Goeze.			
1896, Choanotania infundibuliformis (Goeze, 1782) Railliet.			
LANCEOLATA (Bloch, 1782) Railliet, 1892Intestine			
[1727, Tania anserum Frisch.]			
1779, T. anseris Bloch.			
1781, T. acutissima Pallas pro parte.			
1782, T. lanceolata Bloch.			
1786, T. lanceola Batsch.			
1803, Halysis lanceolata (Bloch, 1782) Zeder.			
1858, Hymenolepis (Dilepis) lanceolata (Bloch, 1782) Weinland.			
SINUOSA (Zeder, 1800) Railliet, 1893			
1782, Tania collari nigro Bloch. 1786, T. collaris Batsch.			
1790, T. torquata Gmelin.			
1800, Alyselminthus sinuosus Zeder.			
1803, Halysis sinuosa (Zeder, 1800) Zeder.			
1803, H. torquata (Gmelin, 1790) Zeder.			
1850, "Tania infundibuliformis (Anserum) Goeze" of Diesing.			
1858, Hymenolepis (Lepidotrias) sinuosa (Zeder, 1800) Weinland.			
Echinocotyle R. Blanchard, 1891 ROSSETERI R. Blanchard, 1891			
·			
Fimbriaria Frölich, 1802			
MALLEUS (Goeze, 1782) Frölich			
1781, Tania fasciolaris γ malleus Pallas.			
1782, T. malleus Goeze.			
1802, Fimbriaria mitra Frölich.			
Halysis Zeder, 1803			
columbæ see Davainea Crassula.			
gracilis see Drepanidotænia gracilis.			
lanceolata see "LANCEOLATA.			
sinuosa see " SINUOSA.			
torquata see " "			
Hymenolepis Weinland, 1858			
sinuosa see Drepanidotænia sinuosa.			
lanceolata see " LANCEOLATA.			
Mesocestoides Vaillant, 1863			
imbutiformis see Tænia imbutiformis.			
Tænia (s. l.) Linnæus, 1758			
acutissima see Drepanidotænia Lanceolata.			
anatina see " ANATINA.			
anseris see "LANCEOLATA.			

Tænia (s. l.) Linnæus, 1	758—Conti	inued.		
anserum see Drepan	NIDOTÆNIA	LANCEOLATA.		
collari nigro see	"	SINUOSA.		
collaris see	"	"		
collo longissimo see	"	GRACILIS.		
coronula see Dicran	OTÆNIA C	CORONULA.		
crassula see Davain	EA CRASSU	ULA.		
fasciolaris y malleus	see FIMB.	RIARIA MALLEUS.		
gracilis see Drepan	IDOTÆNIA	GRACILIS.		
imbutiformis Poloi	110, 1860		Intestine	
1893, Mesocestoides i				
infundibuliformis see				
infundibuliformis (an	ıs e rum) see			
lanceola see		.,	LANCEOLATA.	
lanceolata see				
malleus see FIMBRIA				
serpentiformis i. T. to	urturis see	DAVAINEA CRASSU	LA.	
sphenocephala see	TIN OF FIRE			
torquata see DREPAN	NIDOTÆNIA	A SINUUSA.		
Ŋ	IEMATO	DA (ROUND W	ORMS).	
Acanthophorus Linsto	w, 1876			
tenuis see Tropisur	US FISSISI	PINUS.		
Ascaris Linnæus, 1758				
anatis see Ascaris	CRASSA.			
CRASSA E. Deslonge	champs, 18	824	Intestine	
1790, Ascaris and	atis Gmeli	n.		
1800, Fusaria in	flexa Zedei	r.		
1809, Ascaris inf	texa (Zede	r, 1800) Rudolphi.		
dispar see HETERAK	IS DISPAR	. .		
inflexa see ASCARIS	CRASSA.			
Cucullanus Müller		•		
conoideus see Echin	OSTOMUM	ECHINATUM.		
Dispharagus Dujardin	, 1845			
UNCINATUS (Rudolphi, 1819) Dujardin, 1845 Œsophagus (encysted)				
1819, Spiroptera uncinata Rudolphi.				
1866, Filaria un	cinata (Ru	dolphi, 1819) Schne	ider.	
Eustrongylus Diesing,	1851			
tubifex see HYSTRIC	HIS TUBIF	EX.		
Filaria O. F. Müller, 17	787			
		• • • • • • • • • • • • • • • • • • •	Heart	
uncinata see DISPHA				
Fusaria Zeder, 1800				
dispar see HETERAK	IS DISPAR.			
inflexa see ASCARIS				
Heterakis Dujardin, 18				
		din. 1845	Intestine	
1790, Ascaris dis			, , , , , , , , , , , , , , , , , , , ,	
		ank, 1790) Zeder.		
			Intestine	
			Intestine	
		och [nec Molin, 1860		
1791, A. vesicula	-	- ,		
•		(Frölich, 1791) Duja	ardin.	
vesicularis see HETE	RAKIS PAF	PILLOSA.		

Hystrichis Dujardin, 1845 ELEGANS (Olfers, 1816) Railliet, 1893
Sclerostomum Blainville, 1828 (also Sclerostoma) syngamus see SYNGAMUS TRACHEALIS.
Spiroptera Rudolphi, 1819 uncinata see Dispharagus uncinatus.
Strongylus O. F. Müller, 1780 anatis see Hystrichis elegans. elegans see """ mergorum see """ trachealis see Syngamus trachealis. tubifex see Hystrichis elegans.
Syngamus Siebold, 1836 primitivus see SYNGAMUS TRACHEALIS. TRACHEALIS Siebold, 1836
Trichosoma Rudolphi, 1819 (also Trichosomum) CONTORTUM Creplin, 1839
Tropidocerca Diesing, 1851 fissispina see Tropisurus fissispinus.
Tropisurus Diesing, 1835 FISSISPINUS (Diesing, 1860) Neumann, 1888
ACANTHOCEPHAL▲ (THORN-HEADED WORMS).
Echinorhynchus O. F. Müller FILICOLLIS Rudolphi, 1809
Freyana G. Haller, 1878 ANATINA Koch
Megninia VELATA (Mégnin) External
Tydeus Koch, 1842 MOLESTUS Moniez, 1889

INSECTA (INSECTS

Docophorus (Nitzsch, 1818)
ICTERODES Nitzsch, 1818External
1818, Philopterus (Docophorus) icterodes Nitzsch.
Liotheum Nitzsch, 1806
luridum see Trinoton Luridum.
Lipeurus (Nitzsch, 1818)
ANATIS (Fabricius, 1775) Railliet, 1895
1758, Pediculus anatis Linnæus.
1818, Philopterus (Lipeurus) squalidus Nitzsch.
Pediculus Linnæus, 1758
anatis see LIPEURUS ANATIS.
Philopterus Nitzsch, 1818
icterodes see Docophorus icterodes.
squalidus see Lipeurus anatis.
Trinoton (Nitzsch, 1818)
LURIDUM Nitzsch, 1818External
1818, Liotheum (Trinoton) luridum Nitzsch.